



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246



**647.3903**  
**Job Sheet 191102**



**Part No:** 647.3903

**Job Qty:** 2 pcs

**Part Name:** Deflector Assembly



**Part Weight:** 0 lbs

**Status:** New

**Priority:** Medium

**Job Created:** 2/21/19

**Job Tracking No:**

**Due Date:** 3/22/19

**Created By:** Jesse White

**Type:** Stock

**Description:** SIOP

**Note:** DWG REV C1 SHEETS 1,7,8 IPP REV:A 14.07.21 NEW ISSUE DD VERF:JLM

**Ship Via:**

### Bill of Materials

### Job Routing

| Op<br>No | Operation              | Qty   | Start Date | Due<br>Date | Standard     |            | Workcenter/Supplier   |           | Sign-off    |
|----------|------------------------|-------|------------|-------------|--------------|------------|-----------------------|-----------|-------------|
|          |                        |       |            |             | Setup<br>Hrs | Run<br>Hrs | Workcenter / Supplier | Lead Time |             |
| 110      | Packaging 1 - Pick Kit | 2 pcs | 3/22/19    |             | 0.00         | 0.00       | Packaging 1 - 1       |           | MAR 04 2019 |
|          |                        |       |            |             |              |            | Packaging 1 - 2       |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 3       |           | MAR 11 2019 |
|          |                        |       |            |             |              |            | Packaging 1 - 4       |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 5       |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 6       |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 7       |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 8       |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 9       |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 10      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 11      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 12      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 13      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 14      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 15      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 16      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 17      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 18      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 19      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 20      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 21      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 22      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 23      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 24      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 25      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 26      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 27      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 28      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 29      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 30      |           |             |
|          |                        |       |            |             |              |            | Packaging 1 - 31      |           |             |



**Container No:** S161173



**Part:** 647.3903

**Job No:** 191102

**Serial No/Batch:** S161173

**Revision:**

**Inspector:**

**Exp Date:**

**Instructions:**

Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
CANADA  
TEL: 1 613 632-5200  
Email: sales@dartaero.com  
www.dartaerospace.com

Date: 03/11/19

Plex 2/21/19 11:41 AM dart.white.jesse

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | QC / QA Coordinator    |  |
| <b>Root Cause</b><br><br><div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Presservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |



|     |                             |       |         |           |                        |                   |
|-----|-----------------------------|-------|---------|-----------|------------------------|-------------------|
|     |                             |       |         |           | Packaging 1 - 32       |                   |
|     |                             |       |         |           | Packaging 1 - 33       |                   |
|     |                             |       |         |           | Packaging 1 - 34       |                   |
|     |                             |       |         |           | Packaging 1 - 35       |                   |
|     |                             |       |         |           | Packaging 1 - 36       |                   |
|     |                             |       |         |           |                        |                   |
| 120 | Small Fab - 2 - B4B         | 2 pcs | 3/22/19 | 0.00 0.93 | Small Fab - 1 - B4B    |                   |
|     |                             |       |         |           | Small Fab - 2 - B4B    |                   |
|     |                             |       |         |           | Small Fab - 3 - B4B    | DAS               |
|     |                             |       |         |           | Small Fab - 4 - B4B    | 36                |
|     |                             |       |         |           | Small Fab - 5 - B4B    | 9-89              |
|     |                             |       |         |           | Small Fab - 6 - B4B    |                   |
|     |                             |       |         |           | Small Fab - 7 - B4B    |                   |
| 130 | QC 5                        | 2 pcs | 3/22/19 | 0.00 0.00 | QC 5 - 10              |                   |
|     |                             |       |         |           | QC 5 - 12              |                   |
|     |                             |       |         |           | QC 5 - 17              |                   |
|     |                             |       |         |           | QC 5 - 18              |                   |
|     |                             |       |         |           | QC 5 - 19              |                   |
|     |                             |       |         |           | QC 5 - 22              |                   |
|     |                             |       |         |           | QC 5 - 24              |                   |
|     |                             |       |         |           | QC 5 - 3               |                   |
|     |                             |       |         |           | QC 5 - 42              |                   |
|     |                             |       |         |           | QC 5 - 43              |                   |
|     |                             |       |         |           | QC 5 - 49              |                   |
|     |                             |       |         |           | QC 5 - 51              |                   |
|     |                             |       |         |           | QC 5 - 58              |                   |
|     |                             |       |         |           | QC 5 - 68              |                   |
|     |                             |       |         |           | QC 5 - 9               |                   |
|     |                             |       |         |           | QC 5 - 50              | MAR 14 2019       |
|     |                             |       |         |           | QC 5 - 30              |                   |
| 140 | Packaging 3-1 - Stock - B4B | 2 pcs | 3/22/19 | 0.00 0.00 | Packaging 3 - 1 - B4B  |                   |
|     |                             |       |         |           | Packaging 3 - 2 - B4B  |                   |
|     |                             |       |         |           | Packaging 3 - 3 - B4B  |                   |
|     |                             |       |         |           | Packaging 3 - 4 - B4B  |                   |
|     |                             |       |         |           | Packaging 3 - 5 - B4B  |                   |
|     |                             |       |         |           | Packaging 3 - 6 - B4B  |                   |
|     |                             |       |         |           | Packaging 3 - 7 - B4B  |                   |
|     |                             |       |         |           | Packaging 3 - 8 - B4B  |                   |
|     |                             |       |         |           | Packaging 3 - 9 - B4B  |                   |
|     |                             |       |         |           | Packaging 3 - 10 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 11 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 12 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 13 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 14 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 15 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 16 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 17 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 18 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 19 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 20 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 21 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 22 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 23 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 24 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 25 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 26 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 27 - B4B | 57016 MAR 14 2019 |
|     |                             |       |         |           | Packaging 3 - 28 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 29 - B4B |                   |
|     |                             |       |         |           | Packaging 3 - 30 - B4B |                   |

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | QC / QA Coordinator    |  |
| <b>Root Cause</b><br><br><div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Preservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |

|                |       |         |           |                        |                  |
|----------------|-------|---------|-----------|------------------------|------------------|
|                |       |         |           | Packaging 3 - 31 - B4B |                  |
|                |       |         |           | Packaging 3 - 32 - B4B |                  |
|                |       |         |           | Packaging 3 - 33 - B4B |                  |
|                |       |         |           | Packaging 3 - 34 - B4B |                  |
|                |       |         |           | Packaging 3 - 35 - B4B |                  |
|                |       |         |           | Packaging 3 - 36 - B4B |                  |
| 150 QC 21 - SA | 2 pcs | 3/22/19 | 0.00 0.00 | QC 21 - SA - 21        | DAG              |
|                |       |         |           | QC 21 - SA - 70        | 21               |
|                |       |         |           | QC 21 - SA - 53        | 9-88 MAR 14 2019 |

Part Op 110 - (Pick Kit)  
 Descriptions: 120 - (Small Fab) Assemble as per dwg and apply loctite 598 on all faying surfaces per note .  
 130 - (QC5- Inspect part completeness to step on W/O)  
 140 - (Identify as per dwg & Stock Location: \_\_\_\_\_) \*\*\*IDENTIFY AS PER IAW MPP-120\*\*\*  
 150 - (QC21- Final Inspection - Work Order Release)

| Job BOM              |                |              |                            |                                |
|----------------------|----------------|--------------|----------------------------|--------------------------------|
| Part / Item          | Component Name | Quantity     | Operation                  | Container                      |
| 647.3915 <i>53</i>   | Deflector      | 2 pcs (1 ea) | 110-Packaging 1 - Pick Kit | <i>File 3249</i>               |
| 647.3916 <i>532A</i> | Deflector      | 2 pcs (1 ea) | 110-Packaging 1 - Pick Kit | <i>File 737</i>                |
| 647.3917             | Doubler        | 4 pcs (2 ea) | 110-Packaging 1 - Pick Kit | <i>File 5042x1 5152 x16 x3</i> |
| CR3213-6-9           | Cherry Rivet   | 12 Ea (6 ea) | 110-Packaging 1 - Pick Kit | <i>504124x6 511937-8 x16</i>   |

| Job Allocations            |                |          |           |           |
|----------------------------|----------------|----------|-----------|-----------|
| Operation                  | Component Part | Required | Inventory | Allocated |
| 110-Packaging 1 - Pick Kit | 647.3915       | 2        | 3         | 0         |
|                            | 647.3916       | 2        | 3         | 0         |
|                            | 647.3917       | 4        | 13        | 0         |
|                            | CR3213-6-9     | 12       | 53        | 0         |

| Part Specifications                |  |
|------------------------------------|--|
| Specifications could not be found. |  |

Plex 2/21/19 11:41 AM dart.white.jesse



Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |              |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|------------------------|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |              |                        |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | MRB (QSI042) |                        |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |              | Completed By           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |              | Lead hand / Supervisor |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |              |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |              | QC / QA Coordinator    |
| <b>Root Cause</b><br><br><div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Preservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |              |                        |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |              |                        |